BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Leveling of Site, Chain Link Fencing and Construction of Ramp, Water, Sanitary Pipeline and other Works to Indira Canteen near Ward office, Singapura in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division.**

									Estimate Cost:	**1396000.00**
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRB 2-1.1 : Earthwork in surface excavation in **ordinary soil** for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 **Page No. 5 / Item No. 2.1 of PWD SR 2016-17**	Cum							
	Leveling of Ground		1	13.70	13.50	0.9+0.60	138.71		
						2			
			1	9.20	12.20	0.80	89.79		
	Basic Rate	157.00					**228.50**	284.13	**64924.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		263.08							
	Area Weightage @ 8%	21.05							
	Total	**284.13**							
2	KSRRB 300-6. Excavation soft rock without blasting for formation of roads including stacking neatly, to uniform line and level including cost of explosives, labour, HOM of machineries and equipments complete as per specifications. (with all lead and lift) MORTH / Chapter 3 **Page No. 140, Item No. 19.6, PWD SR 2016-17**	cum							
	Leveing of Ground		1	10.60	9.50	0.30	30.21		
	Basic Rate	750.00					**30.21**	810.00	**24470.00**
	Area Weightage @ 8%	60.00							
	Total	**810.00**							
3	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 142 / Item No. 19.1 / PWD SR 2016-17**	Cum							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Building Surroundings		1	13.75	1.50	0.15	3.09		
			1	13.75	1.20	0.15	2.48		
	For Chain Link Fencing		2	13.75	1.00	0.90	24.75		
			2	13.75	1.00	0.90	24.75		
	Basic Rate	82.00					**55.07**	203.13	**11186.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08	38.08							
		188.08							
	Area Weightage @ 8%	15.05							
	Total	**203.13**							
4	KSRB 4-1.2 : Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation** including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **(P.No. 12/I.No. 4.2 of CSR 2016-17)**	Cum							
	For Chain Link Fenicing		2	13.75	0.75	0.15	3.09		
			2	13.75	0.75	0.15	3.09		
	Building Surroundings		1	13.75	1.50	0.15	3.09		
			1	13.75	1.20	0.15	2.48		
							11.76	5449.68	**64068.00**
	Basic Rate	5046.00							
	Area Weightage @ 8%	403.68							
	Total	**5449.68**							
5	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6, stone** hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 23 / Item No. 5.6, PWD SR 2016-17**	Cum							
	For Chain Link Fenicing		2	13.75	0.75	0.60	12.38		
			2	13.75	0.75	0.60	12.38		
							24.75	4521.96	**111919.00**
	Basic Rate	4187.00							
	Area Weightage @ 8%	334.96							
	Total	**4521.96**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
6	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 23 / Item No. 5.9, PWD SR 2016-17**	Cum							
	For Chain Link Fenicing		2	13.75	0.45	0.45	5.57		
			2	13.75	0.45	0.45	5.57		
							11.14	5405.40	**60203.00**
	Basic Rate	5005.00							
	Area Weightage @ 8%	400.40							
	Total	**5405.40**							
7	KSRB 15.1.3 Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications **Page No. 113 / Item No. 15.3, PWD SR 2016-17**	Sqm							
	For Chain Link Fenicing		2	13.75		0.60	16.50		
			2	13.75		0.60	16.50		
							33.00	105.84	**3493.00**
	Basic Rate	98.00							
	Area Weightage @ 8%	7.84							
	Total	**105.84**							
8	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.6 PWD SR 2016-17**	Cum							
	For Chain Link Fenicing		2	13.75	0.45	0.10	1.24		
			2	13.75	0.45	0.10	1.24		
	Building Surroundings		1	13.75	1.50	0.10	2.06		
			1	13.75	1.20	0.10	1.65		
							6.19	5876.28	**36359.00**
	Basic Rate	5441.00							
	Area Weightage @ 8%	435.28							
	Total	**5876.28**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
9	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) **Page No. 262 / Item No. 37.2, PWD SR 2016-17**	m							
	For Chain Link Fenicing		2x7	2.70			37.80		
			12	2.70			32.40		
							70.20	884.52	**62093.00**
	Basic Rate	819.00							
	Area Weightage @ 8%	65.52							
	Total	**884.52**							
10	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. **Page No. 262 / Item No. 37.4, PWD SR 2016-17**	m							
	For Chain Link Fenicing		2x3	13.75			82.50		
			3	13.75			41.25		
							123.75	349.92	**43303.00**
	Basic Rate	324.00							
	Area Weightage @ 8%	25.92							
	Total	**349.92**							
11	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint **Page No. 262 / Item No. 37.3, PWD SR 2016-17**	Sqm							
	For Chain Link Fenicing		2	13.75		2.10	57.75		
			1	13.75		2.10	28.88		
							86.63	711.72	**61653.00**

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic Rate	659.00							
	Area Weightage @ 8%	52.72							
	Total	**711.72**							
12	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members asshown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specifiocation. **Page. No. 43 / Item. No. 7.37 PWD SR 2016-17**	Sqm							
	Gates		1	1.20	1.80		2.16		
			1	3.70	1.80		6.66		
							8.82	3168.72	**27948.00**
	Basic rate	2934.00							
	Area Weightage @ 8%	234.72							
	Total	**3168.72**							
13	KSRRB M800-20.Tubular Steel Railing on Medium Weight Steel Channel (ISMC Series) 100 mm x 50mm:-Providing, fixing and erecting 50 mm dia steel pipe railing in 3 rows duly painted on medium weight steel channels (ISMC series) 100 mm x 50 mm, 1.2 metres high above ground, 2 m centre to centre, complete as per approved drawings as per specifications. MORTH Specification No. 808 **Page No. 186, Item No. 24.24, PWD SR 2016-17**	M							
	Staricase		4x3	3.00			36.00		
			20x3	0.90			54.00		
			100	1.80			180.00		
							270.00	1548.72	**418154.00**
	Basic rate	1434.00							
	Area Weightage @ 8%	114.72							
	Total	**1548.72**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
14	KSRB 4.2.7 : Providing and laying in position **reinforced cement concrete of design mix M25** with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works **in ground floor level for roof slabs, staircase, lintles and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, ,pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc.,** including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 **Page No. 12, Item No. 4.12, PWD SR 2016-17**	Cum							
	For Steps		1	4.60	5.50	0.15	3.80		
			0.5x12	4.60	0.45	0.15	1.86		
	Basic Rate	6367.00					**5.66**	6876.36	**38906.00**
	Area Weightage @ 8%	509.36							
	Total	**6876.36**							
15	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2016-17**	Tonne							
	@ 100 Kg / Cum		0.10	5.66			**0.57**	65455.56	**37035.00**
	Basic Rate	60607.00							
	Area Weightage @ 8%	4848.56							
	Total	**65455.56**							
16	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2016-17**	Sqm							
	Bottom		1	4.60		5.50	25.30		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			2	4.60	0.30		2.76		
	Basic Rate	293.00					**28.06**	316.44	**8879.00**
	Area Weightage @ 8%	23.44							
	Total	**316.44**							
17	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 **Page No. 5 / Item No. 2.3 of PWD SR 2016-17**	Cum							
	For Water Line		1	30.00	0.60	0.90	16.20		
	For Sanitary Line		1	30.00	0.60	0.90	16.20		
							32.40	189.00	**6124.00**
	Basic Rate	189.00							
	Area Weightage @ 8%	15.12							
	Total	**204.12**							
18	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) - 25mm nominal OD pipes. (**P.No. 96/I.No. 13.85.3 of CSR 2016-17**)	m							
	Water Line		1	70.00			70.00		
							70.00	183.60	**12852.00**
	Basic Rate	170.00							
	Area Weightage @ 8%	13.60							
	Total	**183.60**							
19	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs **Page No. 3 / Item No. 1.6 / PRED SR 2012-13**	Cum							
			Qty. Vide Item No. 1				**32.40**	61.00	**1976.00**
	Basic Rate	61.00							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
20	KSRB13-6.3-3 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3. (**P.No.91/ I.No. 13.34 of CSR 2016-17**)	Each							
			5				**5**	648.00	**3240.00**
	Basic Rate	600.00							
	Area Weightage @ 8%	48.00							
	Total	**648.00**							
21	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) **Page No. 262 / Item No. 37.2, PWD SR 2016-17**	m							
			7	2.00			14.00		
			4	2.00			8.00		
	Basic Rate	819.00					**22.00**	884.52	**19459.00**
	Area Weightage @ 8%	65.52							
	Total	**884.52**							
22	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. **Page No. 262 / Item No. 37.4, PWD SR 2016-17**	m							
			3	15.00			45.00		
			3	11.00			33.00		
	Basic Rate	324.00					**78.00**	349.92	**27294.00**
	Area Weightage @ 8%	25.92							
	Total	**349.92**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
23	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint **Page No. 262 / Item No. 37.3, PWD SR 2016-17**	Sqm							
			1	15.00		1.50	22.50		
			1	11.00		1.50	16.50		
	Basic Rate	659.00					**39.00**	711.72	**27757.00**
	Area Weightage @ 8%	52.72							
	Total	**711.72**							
24	KSRB 12-1.2 : Providing and laying in position to required level or slope 150mm internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints,including cost of materials, labour charges complete as per specifications. Specification No. KBS 12.2.5 / 12.7 **Page No. 70 / Item No. 11.2 / PWD SR 2016-17**	m							
	Sanitary Line		1	45.00			45.00		
							45.00	381.24	**17156.00**
	Basic Rate	353.00							
	Area Weightage @ 8%	28.24							
	Total	**381.24**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
25	Constructing brick masonry inspection chamber **600x600mm, and 450mm depth**, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 600x600mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 600x600mm. **(P.No. 73/ I.No.11.50.1 of PWD SR 2016-17)**	Nos.							
			6				**6**	9670.32	**58022.00**
	Basic Rate	8954.00							
	Area Weightage @ 8%	716.32							
	Total	**9670.32**							
26	Removing and resetting of kerb stones **Page No. 265, Item No. 37.57, PWD SR 2016-17**	m							
			2	40.00			**80.00**	66.96	**5357.00**
	Basic Rate	62.00							
	Area Weightage @ 8%	4.96							
	Total	**66.96**							
27	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 122 / Item No. Item No. 15.80, PWD SR 2016-17**	Sqm							
	Kerb Stone Painting		2	40.00		0.35	28.00		
							28.00	28.08	**786.00**
	Basic Rate	26.00							
	Area Weightage @ 8%	2.08							
	Total	**28.08**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
28	KSRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.**Page No. 122 / Item No. Item No. 15.81, PWD SR 2016-17**	Sqm							
			Qty Vide Item No. 27				28.00		
							28.00	71.28	**1996.00**
	Basic Rate	66.00							
	Area Weightage @ 8%	5.28							
	Total	**71.28**							
	Sub Total								**1256612.00**
	KRIDL Charges @ 10%								**125661.00**
	For Third Part Inspection Charges @ 1%								**12566.00**
	Miscellaneous and other Charges	L/S							**1161.00**
								Total	**1396000.00**
Rupees Thirteen Lakh(s) Ninety Six Thousand Only									

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Administrative Approval
Accorded For Rs 13.96 lakhs only
Head of A/C P-3106
CER NO ES/06/1879 Dt: 30.05.2018

TA

CE (YNK)

TECHNICAL SANCTION
Accorded For Rs. 13.96 Lakhs.
Head of A/c. P-3106
Div. Ref. No. 62/18-19 Date. 3/09/18
AE 3/09
EE(BTP) 3/09